PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0000054918	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No.	International filing date (day/month/year)				
PCT/EP2004/010491	18.09.2004	26.09.2003			
International Patent Classification (IPC) or nati					
C08L23/22, C08F290/04 D06M15/27, D21H19/20,					
Applicant					
BASF AKTIENGESELLSCH	\FT				
This report is the international prelir under Article 35 and transmitted to th		this International Preliminary Examining Authority			
2. This REPORT consists of a total of	6 sheets, incl	luding this cover sheet.			
3. This report is also accompanied by A	NNEXES, comprising:				
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:			
		seen amended and are the basis for this report and/or ee Rule 70.16 and Section 607 of the Administrative			
the disclosure in the	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental				
Box.					
b (sent to the International I	Bureau only) a total of (indicate type and n	umber of electronic carrier(s))			
		, containing a sequence listing and/or tables			
Section 802 of the Administ	· ·	upplemental Box Relating to Sequence Listing (see			
4. This report contains indications relati	ng to the following items:				
Box No. I Basis of the	report				
Box No. II Priority					
Box No. III Non-establi	shment of opinion with regard to novelty, i	nventive step and industrial applicability			
Box No. IV Lack of unit	y of invention				
DON THOS Y	atement under Article 35(2) with regard to d explanations supporting such statement	novelty, inventive step or industrial applicability;			
Box No. VI Certain doc	uments cited				
Box No. VII Certain defe	ects in the international application				
Box No. VIII Certain obse	ervations on the international application				
Date of submission of the demand	Date of completion	of this report			
Name and mailing address of the IPEA/EP	Authorized officer				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/010491

Box	No. I		Basis of the report		
1.			to the language, this report is based on the internatio der this item.	nal application in the language in	which it was filed, unless otherwise
			eport is based on translations from the original langua is the language of a translation furnished for the purp	·	,
		<u></u> i	international search (Rule 12.3 and 23.1(b))		
		\sqcup	publication of the international application (Rule 12.4)	
		∐ i	international preliminary examination (Rule 55.2 and/	or 55.3)	
2.	rece		to the elements of the international application, this fice in response to an invitation under Article 14 ar		
		the int	ernational application as originally filed/furnished		
	\boxtimes	the de	scription:		
		pages	1–35		as originally filed/furnished
		pages*	k	received by this Authority on	
		pages*	·	received by this Authority on	
	\boxtimes	the cla	ims:		
		nos.			as originally filed/furnished
		nos.*		as amended (togethe	r with any statement) under Article 19
		nos.*		received by this Authority on	03.11.2005 with letter
		nos.*		received by this Authority on	
		the dra	wings:		
		sheets			as originally filed/furnished
		sheets'			
		sheets			
	П		ence listing and/or any related table(s) – see Supplem		
	\exists	_		ental Box Relating to Sequence L	isting.
3.	ш		nendments have resulted in the cancellation of:		
			the description, pages		
			the claims, nos.		
			the drawings, sheets/figs		
			the sequence listing (specify):		
	_				
4.	Ш	they h	eport has been established as if (some of) the amend ave been considered to go beyond the disclosure as fil	led, as indicated in the Supplemen	stal Box (Rule 70.2(c)).
			the description, pages		· · · · · · · · · · · · · · · · · · ·
			the claims, nos.		-
			the drawings, sheets/figs		
			the sequence listing (specify):		
		<u></u> П	any table(s) related to sequence listing (specify):		
*	If ite	ет 4 арр	olies, some or all of those sheets may be marked "sup	erseded."	

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Вох			rticle 35(2) with regard to novelty, inventive step or industrial applicability; poorting such statement	
1.	Statement			
Novelty (N)		Claims	1-21	YES
		Claims		NO
	Inventive step (IS)	Claims	1-21	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-21	YES
		Claims		NO
_		70.5%		

- 2. Citations and explanations (Rule 70.7)
 - 1 Reference is made to the following document:
 - D1: WO 96/28483 A (BASF AG; DANISCH PETER (DE);
 DIX JOHANNES PETER (DE); DENZINGER WALTE)

 19 September 1996 (1996-09-19)
 - 2 CLAIMS 1-5
 - Document **D1** discloses (see **dispersion 3** and **test A3**, **B3** in the table on page 15) aqueous dispersions of a copolymer which is obtained by radical copolymerisation of maleic acid anhydride with a decene oligomer followed by cross-linking with water. The oligomer has an average molecular weight of 340 g/mol and a water content of 76.2%.
 - 2.1 The subject matter of claim 1 thus differs from the known aqueous dispersions in that an isobutene oligomer is used as monomer (B) and in that the copolymer is reacted with a compound Ia or Ib.

 The subject matter of claim 1 is thus novel (PCT Article 33(2)).

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The current invention can be considered to address the problem of developing aqueous dispersions which provide leather with improved water repellent finishing and fullness.

The solution to this problem as proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons: D1 proposes (see page 3, lines 1-10) that the anhydride groups present in the copolymer may be solvolysised with hydroxyfunctional compounds or with amines and that the monomer (B) may be an isobutene oligomer (see page 4, lines 10-12). Nevertheless, D1 does not suggest to a person skilled in the art the combination of monomers (B) and (D) as per the current claim 1, and does not indicate that such a combination leads to improved water repellent finishing and fullness.

2.2 Claims 2-5 are dependent on claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.

3 CLAIMS 6-15

Claims 6-15 are characterised by the subject matter of claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.

INTE	RNATIONAL PRELIMINARY REPORT ON PATENTABILITY	PCT/EP2004/010491		
Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventiv citations and explanations supporting such statement	e step or industrial applicability;		
4	CLAIMS 16 AND 17			
	Document D1 discloses (see dispers	ion 3 and		
	test A3, B3 in the table on page 1	5) copolymers		
	which are obtained by radical copolymerisation of			
	maleic acid anhydride with a decene oligomer			
	followed by cross-linking with wat	er.		
4.1	The subject matter of claim 16 thu	s differs from		
	the known copolymer in that an isobutene oligomer			
	is used as monomer (B) and in that the copolymer			
	is reacted with a compound Ia or I	b. The subject		
	matter of claim 16 is thus novel (PCT Article		
	33(2)).			
	The current invention can be consi	dered to address		
	the problem of developing aqueous	dispersions		
	which provide leather with improve	d water		
	repellent finishing and fullness.			
	The solution to this problem as pr	oposed in		
	claim 16 of the present applicatio	n involves an		
	inventive step (PCT Article 33(3))	for the		
	following reasons: D1 proposes (se	e page 3 ,		
	lines 1-10) that the anhydride gro	ups present in		
	the copolymer may be solvolysised	with hydroxy-		
	functional compounds or with amine	s and that the		
	monomer (B) may be an isobutene ol	igomer (see		
	<pre>page 4, lines 10-12). Nevertheles</pre>	s, D1 does not		
	suggest to a person skilled in the	art the		
	combination of monomers (B) and (D) as per the		

current claim 1, and does not indicate that such a

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D 27 77	
Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	combination leads to improved water repellent
	finishing and fullness.
4.2	Claim 17 is dependent on claim 16 and therefore
	likewise meets the PCT requirements for novelty
	and inventive step.
5	CLAIMS 18-21
	Claims 18-21 are characterised by the subject
	matter of claims 1 and 16 and therefore likewise
	meet the PCT requirements for novelty and
	inventive step.